Title: ULTRASONIC ASSISTED ETCH USING CORROSIVE LIQUIDS Inventors: Tan et al. Docket No.: 59081-8007.US01 Perkins Coie LLP (650) 838-4300 1/10

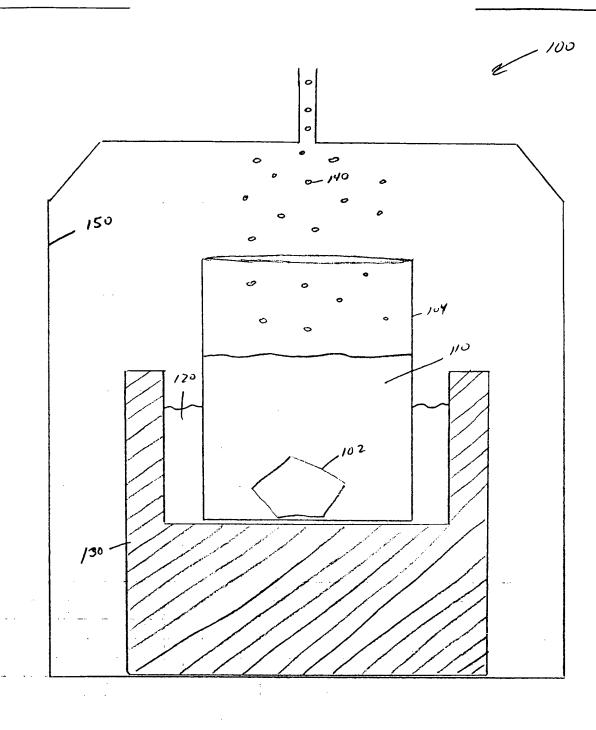


Fig. 1

PRIVE ART

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Fig. 36

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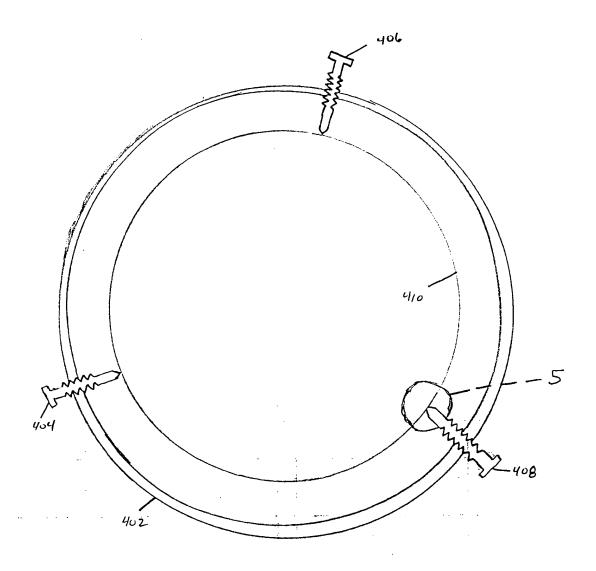


FIG.

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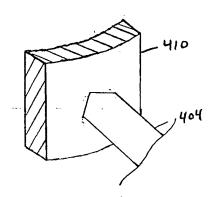
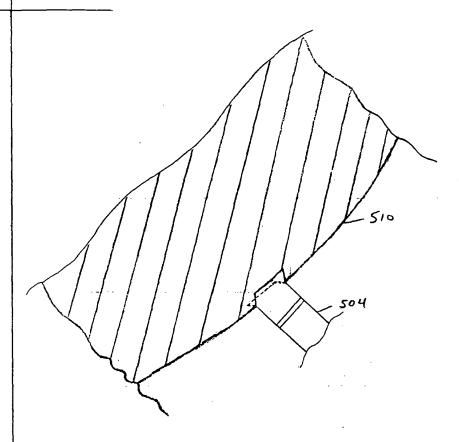


Fig 5a

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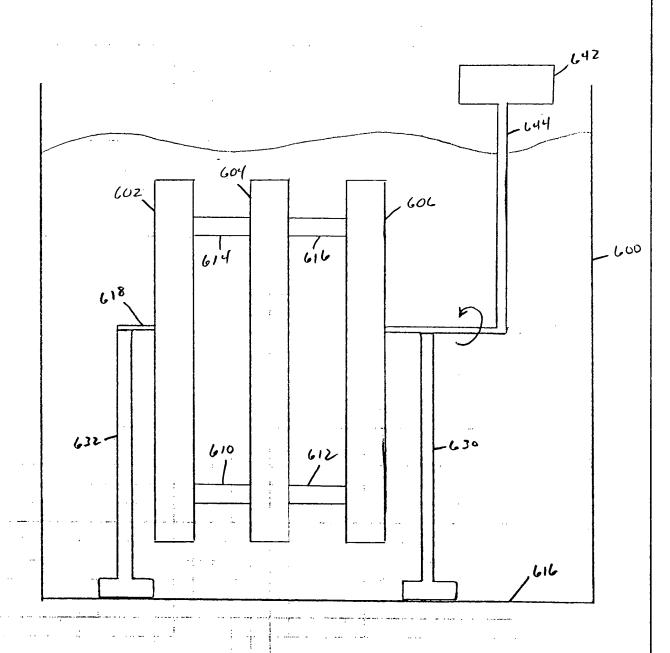
F16. 56

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Providing an inner tank having an inner surface comprising an acid-resistant polymer and defining an upper mouth and being receptive to the workpiece, wherein said inner tank is 710 at least partially disposed within an outer tank at least partially filled with an aqueous solution 720 At least partially filling the inner tank with at least 1 liter of an acidic solution having a total acidity of at least 10% 730 Immersing the workpiece into the acidic solution Covering the mouth of the inner tank with a lid to enclose the 740 acidic solution and to increase the partial pressure above the acidic solution Ultrasonically agitating the acidic solution with an ultrasonic transducer 750 coupled to an outer tank to accelerate the etching of the workpiece

Fie 7.